### **CONTENTS**

# VOL. 30, NO. 1, MARCH 1992

- 1 Ichiroku Hayashi: A preliminary report of an experiment on vegetation recovery of drought deciduous woodland in Kuiti, Kenya
- 10 Matti Nummelin and Lech Borowiec: Cassidinae beetles of the Kibale Forest, western Uganda; comparison between virgin and managed forests
- 18 B. A. Ola-Adams and J. K. Egunjobi: Effects of spacing on litterfall and nutrient contents in stands of Tectona grandis Linn. f. and Terminalia superba Engl. & Diels
- 33 Jenesio I. Kinyamario and Joseph N. M. Macharia: Aboveground standing crop, protein content and dry matter digestibility of a tropical grassland range in the Nairobi National Park, Kenya
- 42 N. A. Din: Territorial areas and shapes in the two species of village weavers (Ploceus cucullatus and P. nigerrimus)
- 49 N. A. Din: Breeding of the black-headed village weaver (*Ploceus cucullatus*) and the chestnut-and-black weaver (*P. nigerrimus*) in Ile-Ife, Nigeria
- 65 C. Chikono and J. S. Choinski: Thermotolerance characteristics of seeds from geographically isolated populations of the African tree Combretum apiculatum Sonder
- 74 G. E. Otiang'a-Owiti, D. Oduor-Okelo and S. G. Gombe: Foetal membranes and placenta of the springhare (Pedetes capensis larvalis Hollister)

#### **Notes and Records**

- 87 Barbara L. McKnight: Birth of an African elephant in Tsavo East National Park, Kenya
- 90 J. W. Duckworth: Sighting frequencies of nocturnal mammals in an Ethiopian Rift Valley National Park
- 98 Book Reviews

# VOL. 30, NO. 2, JUNE 1992

- 103 Steve Mihok, Eli Munyoki, Robert A. Brett, John F. Jonyo, Dietter Röttcher, Phelix A. O. Majiwa, Erastus K. Kang'ethe, Huphrey F. A. Kaburia and Erich Zwaygarth: Trypanosomiasis and the conservation of black rhinoceros (Diceros bicornis) at the Ngulia Rhino Sanctuary, Tsavo West National Park, Kenya
- 116 J. P. Dudley, A. Y. Mensah-Ntiamoah and D. G. Kpelle: Forest elephants in a rainforest fragment: preliminary findings from a wildlife conservation project in southern Ghana

- 127 Ian Deshmukh: Estimation of wood biomass in the Jubba Valley, southern Somalia, and its application to East African rangelands
- 137 R. G. Ruggiero: Seasonal forage utilization by elephants in central Africa
- 149 Emmanuel Asuquo Obot, A. Chinda and S. Braid: Vegetation recovery and herbaceous production in a freshwater wetland 19 years after a major oil spill
- 157 M. G. Wright and J. H. Giliomee: Insect herbivory and putative defence mechanisms of *Protea magnifica* and P. laurifolia (Proteaceae)
- 169 S. Vrahimis and O. B. Kok: Body orientation of black wildebeest in a semiarid environment

#### **Notes and Records**

- 176 James G. Wyant and Robin S. Reid: Determining the age of Acacia tortilis with ring counts for South Turkana, Kenya: a preliminary assessment
- 181 P. F. Woodall: An estimation of a rapid method for estimating digestibility
- 186 Book Reviews

# VOL. 30, NO. 3, SEPTEMBER 1992

- 189 C. M. Shackleton: Area and species selection by wild ungulates in coastal sour grasslands of Mkambati Game Reserve, Transkei, southern Africa
- 203 Simon M. Munthali and Hector M. Banda: Distribution and abundance of the common ungulates of Nyika National Park, Malawi
- 213 Matti Nummelin: Invertebrate herbivory in the forest floor vegetation of virgin and managed forest sites in the Kibale Forest, western Uganda
- 223 Ian G. Henderson and David M. Harper: Bird distribution and habitat structure on Lake Naivasha, Kenya
- 233 R. J. Douthwaite: Effects of DDT treatments applied for tsetse fly control on white-browed sparrow-weaver (*Plocepasser mahali*) populations in NW Zimbabwe
- 245 Michael H. Knight, Albert S. van Jaarsveld and M. G. L. Mills: Allo-suckling in spotted hyaenas (Crocuta crocuta): an example of behavioural flexibility in carnivores
- 252 N. A. Din: Hatching synchronization and polymorphism in the eggs of *Ploceus cucullatus* and P. nigerrimus with data on nest parasitism
- 261 N. A. Din: Pattern of nest destruction in the two village weavers (Ploceus cucullatus and P. nigerrimus) at Ife, Nigeria
- 269 D. T. Williamson: Condition, growth and reproduction in male red lechwe (Kobus leche leche Gray 1850)
- 276 Book Review

# VOL. 30, NO. 4, DECEMBER 1992

- 279 M. P. T. Alers, A. Blom, C. Sikubwabo Kiyengo, T. Masunda and R. F. W. Barnes: Preliminary assessment of the status of the forest elephant in Zaire
- 292 Claudio Sillero-Zubiri and Dada Gottelli: Population ecology of spotted hyaena in an equatorial mountain forest
- 301 Chris O. Loggers: Population characteristics of dorcas gazelles in Morocco
- 309 Herbert H. T. Prins and Henk P. van der Jeugd: Growth rates of shrubs on different soils in Tanzania
- 316 R. F. W. Barnes and K. L. Barnes: Estimating decay rates of elephant dung piles in forest
- 322 C. K. Willis, J. D. Skinner and H. G. Robertson: Abundance of ants and termites in the False Karoo and their importance in the diet of the aardvark Orycteropus afer
- 335 W. R. J. Dean and R. I. Yeaton: The importance of harvester ant Messor capensis nest-mounds as germination sites in the southern Karoo, South Africa

#### **Notes and Records**

- 346 Robert A. Prinzivalli: Investigating the use of infrared detectors to count elephants in a forest environment
- 349 K. J. Stafford and Y. M. Stafford: The kidney of the Kafue lechwe
- 353 Author index to volume 30